

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFEINSPRITZVORRICHTUNG

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 0925440 B1 20020619 (DE)

Application
EP 98921342 A 19980310

Priority
• DE 9800700 W 19980310
• DE 19729844 A 19970711

Abstract (en)
[origin: DE19729844A1] Disclosed is an injector comprising a HP source (8) from which fuel is fed into injection valves (14) controlled by a piezoelectric or magnetostrictive pulse (59) valve (40). Said pulse enables a three-way valve to be developed, the closing body (42) of which can be put into an intermediate position, where a control chamber (36) exerts upon said closing body a hydraulic force in the direction of closure (21) of the closing member in the injector and can be connected both to a HP fuel source (8) and to an unloading space so as to permit the control pressure to be set in a range from the source high pressure to the discharge pressure, thereby adjusting a partial opening of the closing element in the injecting valve, so that a reduced amount of fuel can be injected into the combustion chamber of the engine.

IPC 1-7
F02M 47/02; **F02M 59/46**; **F02M 45/08**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02D 41/20** (2006.01)

CPC (source: EP KR US)
F02M 45/08 (2013.01 - EP US); **F02M 47/02** (2013.01 - KR); **F02M 47/027** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 63/0045** (2013.01 - EP US); **F02D 41/2096** (2013.01 - EP US)

Cited by
US9897033B2; US9920674B2; US10415524B2

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DE 19729844 A1 19990114; DE 59804498 D1 20020725; EP 0925440 A1 19990630; EP 0925440 B1 20020619; JP 2001500218 A 20010109; JP 4024314 B2 20071219; KR 100561791 B1 20060321; KR 20000068531 A 20001125; US 6196193 B1 20010306; WO 9902849 A1 19990121

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